

ENGINEERED PERFORMANCE STANDARDS

BOOK NUMBER - 01

GENERAL



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EPS SUPPLEMENTAL DATA
CRAFT DELAY ALLOWANCE, JOB PREPARATION

CRAFT	JOB PREP	CRAFT DELAY ALLOW.	
		SINGLE	MULTI
BOILER WORK	.4	23	33
CARPENTRY - GENERAL	.3	15	20
CARPENTRY - ROOFING	.6	20	25
COOLING/VENT/REFER.	.3	15	18
ELECTRICAL & ELECTRONIC	.3	16	20
HAZARDOUS WORK (ADD TO JP)	.2	--	--
HEATING	.3	17	21
JANITORIAL	.3	11	13
MACHINE SHOP	.3	23	24
MACHINE REPAIR	.4	28	36
MASONRY - GENERAL	.4	15	20
- W/ PURCH. CONC.	.4	19	22
MOVING AND RIGGING	.3	28	40
PAINT - GENERAL	.2	16	17
- SPRAY	.2	17	19
PEST CONTROL	.3	14	17
PIPEFITTING - INTERIOR	.3	15	20
- EXTERIOR	.3	18	25
PLUMBING - INTERIOR	.3	17	20
- EXTERIOR	.3	15	20
ROADS & GRNDS - GENERAL	.3	16	20
- LABORERS	.3	15	20
SHEETMETAL	.3	15	20
STRUC IRON & WELD - FIELD	.3	17	20
- SHOP	.6	17	22
TRACKAGE	.4	--	22
WHARFBUILDING	.5	24	32

:
: Paint: Additional preparation time.
:
:

TASK TIME STANDARDS LISTING

PWP027A Traffic striping per day.

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWP 027A Additional Preparation Time for Traffic Stripping.

001.10000 hours per days

LADDER TIME:

Position, ascend, descend and aside

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: These ladder standards have been prepared for use by all crafts.
: They cover reaching to an object, continuous lateral movement
: and painting a wall or ceiling at various heights. The standard
: includes time for obtaining, setting up, taking down and asiding
: ladder; moving obstructions and positioning ladder to
: object or to use; adjusting ladder extension and making safety
: check, if appropriate; ascending ladder with each foot touching
: each rung; and descending ladder with feet touching alternate
: rungs. Time for helper to hold ladder when necessary has also
: been allowed. When applying these standards, use *CONTINUED*
: one occurrence each time the craftsperson ascends and descends
: the ladder.
:
:
:

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TASK TIME STANDARDS LISTING

PWP009A	TO REACH OBJECTS:	up to	8 ft high	per MOVE
PWP009B	TO REACH OBJECTS:	from 9 to	11 ft high	per MOVE
PWP009C	TO REACH OBJECTS:	from 12 to	15 ft high	per MOVE
PWP009D	TO REACH OBJECTS:	from 16 to	23 ft high	per MOVE
PWP009E	TO REACH OBJECTS:	over	23 ft high	per MOVE
PWP009F	CONTINUOUS LATERAL MOVEMENT:	up to	8' high	per LIN FT
PWP009G	CONTINUOUS LATERAL MOVEMENT:	from 9 to	11 ft high	per LIN FT
PWP009H	CONTINUOUS LATERAL MOVEMENT:	from 12 to	15 ft high	per LIN FT
PWP009I	CONTINUOUS LATERAL MOVEMENT:	from 16 to	23 ft high	per LIN FT
PWP009J	CONTINUOUS LATERAL MOVEMENT:	over	23 ft high	per LIN FT
PWP009K	WALL PAINTING OR COVERING:	walls to	15 ft high	per SQ FT
PWP009L	WALL PAINTING OR COVERING:	Wall over	15 ft high	per SQ FT
PWP009M	CEILING PAINTING OR COVERING:	Ceilings to	11ft high	per SQ FT
PWP009N	CEILING PAINTING OR COVERING:	Ceilings over	11ft high	per SQ FT

PWP 009A Position and climb ladder to reach object up to 8 feet high.
-Includes obtaining, setting up, taking down and asiding ladder
moving obstructions and positioning ladder to object; climbing
ladder with each foot touching each rung; and descending ladder
with feet touching alternate rungs.

000.03926 hours per Object

PWP 009B Position and climb ladder to reach object 9 to 11 feet high.
Includes obtaining, setting up, taking down and asiding ladder;
moving obstructions and positioning ladder to object; climbing
ladder with each foot touching each rung; and descending ladder
with feet touching alternate rungs.

000.04156 hours per Object

PWP 009C Position and climb ladder to reach object 12 to 15 feet high.
Includes obtaining, setting up, taking down and asiding ladder;
moving obstructions and positioning ladder to object; adjusting
ladder extension and making safety check; climbing ladder with
each foot touching each rung; and descending ladder with feet
touching alternate rungs.

000.07265 hours per Object

PWP 009D Position and climb ladder to reach object 16 to 23 feet high.
Includes obtaining, setting up, taking down and asiding ladder;
moving obstructions and positioning ladder to object; adjusting
ladder extension and making safety check; climbing ladder with
each foot touching each rung; and descending ladder with feet
touching alternate rungs.

000.15912 hours per Object

PWP 009E Position and climb ladder to reach object over 23 feet high.
Includes obtaining, setting up, taking down and asiding ladder;
moving obstructions and positioning ladder to object; adjusting
ladder extension and making safety check; climbing ladder with
each foot touching each rung; and descending ladder with feet
touching alternate rungs.

000.18212 hours per Object

PWP 009F Position and climb ladder when making continuous lateral move-
ments at heights up to 8 feet. Includes obtaining, setting up,
taking down and asiding ladder; moving obstructions and positio
ing ladder for use; climbing ladder with each foot touching eac
rung; and descending ladder with feet touching alternate rungs.

000.00372 hours per Linear foot

PWP 009G Position and climb ladder when making continuous lateral movements at heights of 9 to 11 feet.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; climbing ladder with each foot touching each rung; and descending ladder with feet touching alternate rungs.

000.00436 hours per Linear foot

PWP 009H Position and climb ladder when making continuous lateral movements at heights of 12 to 15 feet.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; adjusting ladder extension and making safety check; climbing ladder with each foot touching each rung and descending ladder with feet touching alternate rungs.

000.00622 hours per Linear foot

PWP 009I Position and climb ladder when making continuous lateral movements at heights of 16 to 23 feet.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; adjusting ladder extension and making safety check; climbing ladder with each foot touching each rung and descending ladder with feet touching alternate rungs.

000.01638 hours per Linear foot

PWP 009J Position and climb ladder when making continuous lateral movements at heights of over 23 feet.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; adjusting ladder extension and making safety check; climbing ladder with each foot touching each rung and descending ladder with feet touching alternate rungs.

000.02295 hours per Linear foot

PWP 009K Position and climb ladder when painting walls up to 15 feet high. Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; adjusting ladder extension and making safety check; ascending and descending ladder with both feet touching each rung; and ascending and descending ladder with one foot touching each rung.

000.00043 hours per Square foot

PWP 009L Position and climb ladder when painting walls over 15 feet high. -Includes all actions required when making continuous lateral movements at heights over 15 feet; adjusting extension to reach intermediate heights; and ascending and descending ladder to adjust extension.

000.00205 hours per Square foot

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWP 009M Position and climb stepladder when painting ceilings up to 11 feet high.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; and ascending and descending ladder while painting ceiling

000.00274 hours per Square foot

PWP 009N Position and climb stepladder when painting ceilings over 11 feet high.--Includes obtaining, setting up, taking down and asiding ladder; moving obstructions and positioning ladder for use; and ascending and descending ladder while painting ceiling

000.00382 hours per Square foot

SCAFFOLDING: Erect and dismantle

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: SCAFFOLD TASK:include time to assemble,move,level,raise & lower.
: Iron pipe or aluminum pipe scaffolding.
: 1. PORTABLE PIPE SCAFFOLDING 2. PREFABRICATED PIPE SCAFFOLDING
: See: MOVING & RIG.for SNAP ON ALUM.TYPE SCAFFOLD;POWER SCAFFOLD
: Task in 1 & 2 are in formula format. That is you will need
: to fill in the number of total units that are ground sections &
: the total number of additional sections that are above and not
: in contact with the ground.
:
:
:

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TASK TIME STANDARDS LISTING

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P 701A Prefabricated pipe scaffold- "N" sections high; (assemble or
                                         5x6 ft -(ref.BT185)      disassemble)
P 701B Portable scaffold- ..5x6 ft -"N" sections high; (assemble or
                                         (ref.BT186)          disassemble)

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EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

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P 701A (ref.BT185) Prefabricated pipe scaffold 5x6 ft sections ASSEMBLE
DISASSEMBLE ground level & or additional levels, up to 5 levels
Includes: position & install end frames sections; install cros
bars sections;move scaffold boards into place; position shims,
adjust level, tap with hammer to align & all similar motions
needed to join bottom &additional sections above ground section

000.33365 hours per ground sections used (total number of secti
ons on ground)
000.32068 hours per addl.sect.(total no.of sections above groun
d level)
P 701B (ref.BT186) Portable Scaffolding 5x6 ft sections ASSEMBLE or
DISASSEMBLE ground level & or additional levels, up to 5 levels
Includes: bottom section-roll into place, lock wheels, clamp
4 cross bars & brackets into place, move boards into place &
attach.), addl.-move additional sections & boards up in place,
clamp 4 cross bars & 4 cross brackets into place.

000.19495 hours per ground sections used(total number of sectio
ns on ground)
000.31600 hours per addl.sect.(total no.of sections above groun
d level)

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TRAVEL TIME: Heavy equipment

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:
: Each Additional Work Location
: Heavy Equipment Travel (there is no additional time allotted for
: travel from SHOP or ZONE 0 to ZONE 1, 2 or 3 and returning)
:
:
:

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TASK TIME STANDARDS LISTING

PWA002A	shop to	ZONE 4 & return:	heavy equipment	per PERSON	per R/T
PWA002B	shop to	ZONE 5 & return:	heavy equipment	per PERSON	per R/T
PWA002C	shop to	ZONE 6 & return:	heavy equipment	per PERSON	per R/T
PWA002D	shop to	ZONE 7 & return:	heavy equipment	per PERSON	per R/T
PWA002E	shop to	ZONE 8 & return:	heavy equipment	per PERSON	per R/T
PWA002F	shop to	ZONE 9 & return:	heavy equipment	per PERSON	per R/T
PWA002G	shop to	ZONE 10 & return:	heavy equipment	per PERSON	per R/T
PWA002H	shop to	ZONE 11 & return:	heavy equipment	per PERSON	per R/T
PWA002I	shop to	ZONE 12 & return:	heavy equipment	per PERSON	per R/T
PWA002J	shop to	ZONE 13 & return:	heavy equipment	per PERSON	per R/T
PWA002K	shop to	ZONE 14 & return:	heavy equipment	per PERSON	per R/T
PWA002L	shop to	ZONE 15 & return:	heavy equipment	per PERSON	per R/T

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWA 002A Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 4 and returning to starting point.

000.11000 hours per Person per Round Trip

PWA 002B Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 5 and returning to starting point.

000.19000 hours per Person per Round Trip

PWA 002C Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 6 and returning to starting point.

000.27000 hours per Person per Round Trip

PWA 002D Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 7 and returning to starting point.

000.35000 hours per Person per Round Trip

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWA 002E Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 8 and returning to starting point.

000.43000 hours per Person per Round Trip

PWA 002F Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 9 and returning to starting point.

000.55000 hours per Person per Round Trip

PWA 002G Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 10 and returning to starting point.

000.71000 hours per Person per Round Trip

PWA 002H Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 11 and returning to starting point.

000.87000 hours per Person per Round Trip

PWA 002I Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 12 and returning to starting point.

001.03000 hours per Person per Round Trip

PWA 002J Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 13 and returning to starting point.

001.19000 hours per Person per Round Trip

PWA 002K Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 14 and returning to starting point.

001.35000 hours per Person per Round Trip

PWA 002L Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 15 and returning to starting point.

001.51000 hours per Person per Round Trip

PWA 002L Additional travel time for heavy equipment movement when traveling from SHOP or ZONE 0 to ZONE 15 and returning to starting point.

001.51000 hours per Person per Round Trip

TRAVEL TIME: Additional round trip or work location

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: Additional Work Location- time for walking from room to room w/
:   tools or equipment; walking between adjacent buildings or to
:   travel by vehicle within travel zone per person per move.
: Additional Round Trip- time for an additional round trip to a
:   particular travel zone per person per day.
:
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:

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TASK TIME STANDARDS LISTING

PWA001	Additional Work Location:	per Person per Move
PWA001A	Additional R/T to Zone 1:	per Person per Day
PWA001B	Additional R/T to Zone 2:	per Person per Day
PWA001C	Additional R/T to Zone 3:	per Person per Day
PWA001D	Additional R/T to Zone 4:	per Person per Day
PWA001E	Additional R/T to Zone 5:	per Person per Day
PWA001F	Additional R/T to Zone 6:	per Person per Day
PWA001G	Additional R/T to Zone 7:	per Person per Day
PWA001H	Additional R/T to Zone 8:	per Person per Day
PWA001I	Additional R/T to Zone 9:	per Person per Day
PWA001J	Additional R/T to Zone 10:	per Person per Day
PWA001K	Additional R/T to Zone 11:	per Person per Day
PWA001L	Additional R/T to Zone 12:	per Person per Day
PWA001M	Additional R/T to Zone 13:	per Person per Day
PWA001N	Additional R/T to Zone 14:	per Person per Day
PWA001O	Additional R/T to Zone 15:	per Person per Day

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWA 001 Additional travel time for each additional work location.
000.07000 hours per (persons per move)x(number of move)

PWA 001A Additional travel time per round trip per person to zone 1
000.16000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001B Additional travel time per round trip per person to zone 2
000.25000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001C Additional travel time per round trip per person to zone 3
000.35000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001D Additional travel time per round trip per person to zone 4
000.45000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001E Additional travel time per round trip per person to zone 5
000.55000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001F Additional travel time per round trip per person to zone 6
000.65000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001G Additional travel time per round trip per person to zone 7
000.75000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001H Additional travel time per round trip per person to zone 8
000.85000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001I Additional travel time per round trip per person to zone 9
001.00000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001J Additional travel time per round trip per person to zone 10
001.20000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001K Additional travel time per round trip per person to zone 11
001.40000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWA 001L Additional travel time per round trip per person to zone 12

001.60000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001M Additional travel time per round trip per person to zone 13

001.80000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001N Additional travel time per round trip per person to zone 14

002.00000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

PWA 001O Additional travel time per round trip per person to zone 15

002.20000 hours per additional trips (round trips/day)x(person
s/trip/day)x(days)

:
: Time for standby/safety personnel required at job site necessary :
: to perform work. :
: :
: :

TASK TIME STANDARDS LISTING

PWA010A Standby/safety function required to perform work.

EPS TASK TIME STANDARDS - DESCRIPTIONS AND UNIT HOURS

PWA 010A Time for safety and/or watchstanding personnel necessary to perform work. Also used to allow time for transportation (truck-driver, etc.) manpower requirements.

001.00000 hours per hours required